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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/807,338	03/24/2004	Han Sol Cho	6661-000012/US	3498	
30593 7590 12/11/2006			EXAMINER		
HARNESS, DICKEY & PIERCE, P.L.C.		.C.	KIM, ELLEN E		
P.O. BOX 8910 RESTON, VA			. ART UNIT	PAPER NUMBER	
		·	2874		
			DATE MAILED: 12/11/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		A	pplication No.	Applicant(s)				
			10/807,338	CHO ET AL.				
Office Action Summary			xaminer	Art Unit				
		E	illen Kim	2874				
Period fo	The MAILING DATE of this commu or Reply	nication appea	rs on the cover sheet	with the correspondence a	ddress			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE Masions of time may be available under the provision SIX (6) MONTHS from the mailing date of this come period for reply is specified above, the maximum set to reply within the set or extended period for reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DAT s of 37 CFR 1.136(a munication. statutory period will a y will, by statute, cal	E OF THIS COMMUI a). In no event, however, may apply and will expire SIX (6) M use the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).				
Status								
1)	Responsive to communication(s) fil	ed on 22 Sept	ember 2006					
2a)□	This action is FINAL . 2b) \boxtimes This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
,—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	4)⊠ Claim(s) <u>1-13</u> is/are pending in the application.							
· ·	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.							
6)🖂	_							
7)	Claim(s) is/are objected to.							
8)	Claim(s) are subject to restri	ction and/or e	lection requirement.					
Applicati	on Papers			•				
9)	The specification is objected to by the	ne Examiner.		•				
	The drawing(s) filed on is/are		ted or b) objected	to by the Examiner.				
•	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) includin	g the correction	is required if the drawi	ng(s) is objected to. See 37 C	FR 1.121(d).			
11)	The oath or declaration is objected t	to by the Exan	niner. Note the attach	ned Office Action or form P	TO-152.			
Priority ι	ınder 35 U.S.C. § 119	•						
12)	Acknowledgment is made of a claim	ı for foreign pr	iority under 35 U.S.C	. § 119(a)-(d) or (f).				
a)[a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies	of the priority	documents have be	en received in this Nationa	l Stage			
	application from the Internation	-						
* 5	See the attached detailed Office action	on for a list of	the certified copies n	ot received.				
Attachmen	tie)	,	•	•				
	e of References Cited (PTO-892)	, ·	4) Interview	w Summary (PTO-413)				
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (Paper N	lo(s)/Mail Date				
	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date		5) Notice of Other: _	of Informal Patent Application				

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DETAILED ACTION

Response to Arguments

Applicant's arguments, filed 9/22/06, with respect to claims 1-13 have been fully considered and are persuasive. The rejection of claims 1-13 has been withdrawn.

Claim Objections

Claim 5 is objected to because of the following informalities: it is not clear whether "a compressed gas..." in claim 5 is identical to the "a compressed gas..." in claim 1. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000.

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Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-13 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Perez et al [USPAT 6,468,451].

Perez et al disclose a method comprising:

- a) mounting an amorphous polymeric optical element [column 1, lines 19-26] into a chamber [column 6, lines 14-26];
 - b) introducing a compressed gas in a supercritical phase or a liquid or vapor phase approaching the supercritical phase [column 6, lines 23-26] as an annealing medium into the chamber and annealing [column 10, lines 44-48] polymeric optical element; and
 - c) removing the annealing medium from the chamber [column 3, line 6]:

In re claim 3, Perez et al show at column 3, lines 46-56 that ionomers and thermoplastic elastomers such as styrene/ethylene/butylene/styrene (SEBS).

In re claim 4, Perez et al show the amorphous polymeric optical element is a plastic optical fiber [abstract].

In re claim 7, Perez et al show at column 11, lines 30-43 that the gas can be CO₂.

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In re claims 8 and 9, the claimed limitations are inherently performed in Perez et al reference.

In re claim 12, Perez et al show at column 4, lines 25-43 that the temperature is about 30°C, and the pressure is about 143 atm.

In re claim 13, Perez et al show in abstract the use of optical fiber, and different mixture of polymers in column 15 and 16. The adhesive coating can be considered as cladding layer of the optical fiber, the claimed material can be made by the mixture of different polymers as shown in column 15 and 16.

Conclusion

In formation regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

For all official patent application related correspondence for organizations reporting to the Commissioner of Patents:

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- Correspondence that is transmitted by facsimile must be directed to the central facsimile number, (703) 872-9306.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Further references of interest are cited on Form PLO-892, which is attachment to this office action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ellen Kim whose telephone number is (571) 272-2349. The examiner can normally be reached on Monday through Thursday.

Ellen E. Kim

Primary Examiner

December 7, 2006/EK